

High purity polycarbonate is produced using coalescer with hydrophilic packing to separate wash liquid from organic product solution after first washing step

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Abstract

A polycarbonate production process employs a coalescer with a hydrophilic packing to separate wash liquid from the organic polycarbonate-containing product solution after a first washing step. Polycarbonate production, by the phase interface process, comprises repeatedly washing the polycarbonate-containing product solution with a wash liquid, which is separated by separation elements after each washing step, and then evaporating the solvent, the organic polycarbonate-containing solution and the wash liquid being separated, after the first washing step, in a coalescer with a hydrophilic packing. An independent claim is also included for polycarbonate-containing solution purification by the washing and separation operation described above. Preferred Features: The hydrophilic packing consists of special steel fibers of 2-10 μ m diameter. Coalescers may be used in subsequent washing steps, a total of three to five washing steps being used. The wash liquid is mixed with the organic polycarbonate-containing solution by mixing pumps, especially a centrifugal pump, or multistage mixing nozzles. The polycarbonate product is formed to molded parts by injection molding, extrusion or blow molding.

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